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JP407061803A

Mar. 7, 1995

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PRODUCTION OF FULLERENE AND CARBON NANOTUBE

INVENTOR: TANAKA, YUSUKE
MATSUMOTO, YOSHINARI
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APPLICANT: NEC CORP

APPL NO: JP 05211662

DATE FILED: Aug. 26, 1993

INT-CL: C 01 B31 /02; D 01 F9 /12

ABSTRACT:

PURPOSE: To synthesize fullerene and carbon nanotubes with good mass productivity.

CONSTITUTION: This method for synthesizing fullerene and carbon nanotubes comprises making Ar gas flow through the interior of a reactional tube 1 made of quartz glass, making a high-frequency electric current flow through an induction coil 3 wound around the periphery thereof under ≥ 100 Torr pressure, producing a thermal plasma 4, feeding powder 6 of carbon into the thermal plasma 4, evaporating and recombining the powder. Since the thermal plasma 4 produced by the high-frequency induction has a wide plasma region at a high temperature, a large amount of the carbon powder 6 can instantaneously be evaporated to synthesize large amounts of the fullerene and carbon nanotubes in a short time.

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WO009609246A1

Mar. 28, 1996

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OPENING AND FILLING

CARBONNANOTUBES

INVENTOR: GREEN, MALCOLM LESLIE HODDER (GB)
TSANG, SHIK CHI (GB)

APPLICANT: ISIS INNOVATION (GB)
GREEN MALCOLM LESLIE HODDER (GB)
TSANG SHIK CHI (GB)

APPL NO: GB 09502235

DATE FILED: Sep. 20, 1995

PRIOR-AP: GB 09418937A Sep. 20, 1994

INT-CL: [6] C 01 B31 /02

EUR-CL: C01B31/02

ABSTRACT:

A method of making carbon nanotubes open on at least one end involves heating capped nanotubes in nitric acid. Open-ended nanotubes may be empty or may contain deposits of metal oxides or metals or proteins.

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JP410265208A

Oct. 6, 1998

L13: 3 of 12

PRODUCTION OF CARBON NANOTUBE AND CARBON NANOTUBE FILM

INVENTOR: KUSUNOKI, MICHIKO
APPLICANT: FINE CERAMICS CENTER
APPL NO: JP 09087518
DATE FILED: Mar. 21, 1997
INT-CL: C 01 B31 /02; D 01 F9 /127


ABSTRACT:

PROBLEM TO BE SOLVED: To provide a new producing method of a novel carbon nanotube and a carbon nanotube film composed of many numbers of the carbon nanotubes oriented in a film thickness direction.

SOLUTION: A carbon nanotube 31 is formed on a SiC 1 of a part 11, where a silicon atom is removed by heating the SiC 1 under a vacuum. The carbon nanotube 31 having high purity is produced at a high yield by this method. Moreover since the carbon nanotube 31 formed by the method has a tendency to orient in the perpendicular direction to the surface of SiC crystal, a high oriented nanotube film 3 composed of the carbon nanotubes is obtained. The nanotube film 3 with a large area is easily produced by this method.

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